REMARKS

This in response to the Office Action of October 5, 2004. With this response, a number of typographical errors in the specification are corrected, claims 1, 2, 10, 13, 18, 19, 27, 30, and 35 are amended and claims 8 and 25 are cancelled. All pending claims 1-7, 9-24, and 26-35 are presented for reconsideration and favorable action.

In the Office Action, the Examiner rejected all pending claims based upon U.S. Patent No. 6,316,914 Bertness.

With this response, the independent claims have been amended to clarify that the present invention relates to determining cable resistance of wiring of an electrical system. It is believed that the portion cited by the Examiner in the Bertness '914 reference do not show such configuration. The resistances referred to in that configuration are resistances R1, R2, R3 and R4 which represent resistances of four batteries (See Col. 3, lines 9-10).

The independent claims have been amended both in their bodies and in their preambles to reflect this distinction. It is believed that the Bertness '914 patent does not relate to determining such a cable resistance and therefore the resistance should be withdrawn. Further, the independent claims describe determining the cable of resistance of wiring based upon a measured first and second parameter of an electrical system. These parameters are measured between, respectively a first and second connection to the electrical system and a third and the second connection to the electrical system. It is believed that the Bertness reference '914 also does not show such a configuration. For this reason the rejection should be withdrawn. Applicant notes that the dependent claims, particularly when read in context with the independent claims, describe the invention in a manner which is not shown by Bertness

'914. These independent claims include the related measurement of fourth and fifth parameters, the use of dynamic parameters, active and passive forcing functions and Kelvin connections in determining such measurements. Further, the dependent claims include particular equations and locations of the applied forcing functions, the use of cold cranking amps along with various outputs and the determination of cabling resistance which is also not shown by Bertness '914.

In view of the above amendments and remarks, it is believed that the present invention is in condition for allowance. Consideration and favorable action are respectfully requested.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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